

CONDITIONS WHERE PRACTICE APPLIES

This practice shall be used on denuded areas as specified on the plans and may be used on highly erodible or critically eroding areas. This specification is divided into Temporary Seeding, to quickly establish vegetative cover for short duration O(up to one year), and Permanent Seeding, for long term vegetative cover. Examples of applicable areas for Temporary Seeding are temporary Soil Stockpiles, cleared areas being left idle between construction phases, earth dikes, etc. and for Permanent Seeding are lawns, dams, cut and fill slopes and other areas at final grade, former stockpile and staging areas, etc.

EFFECTS ON WATER QUALITY AND QUANTITY

Planting vegetation in disturbed areas will have an effect on the water budget, especially on volumes and rates of runoff, infiltration evaporation, transpiration, percolation, and groundwater recharge. Vegetation, over time, will increase organic matter content and improve the water holding capacity of the soil and subsequent plant growth. Vegetation will help reduce the movement of sediment, nutrients, and other chemicals carried by runoff to receiving waters. Plants will also help protect groundwater supplies by assimilating those substances present within the root zone. Sediment control devices must remain in place during grading, seedbed preparation, seeding, mulching and vegetative establishment

SECTION 1 - VEGETATIVE STABILIZATION METHODS AND MATERIALS

to prevent large quantities of sediment and associated chemicals and nutrients from washing into surface waters.

- A. Site Preparation Install erosion and sediment control structures (either temporary of permanent) such as diversions, grade stabilization structures, berms, waterways, or sediment control basins. Perform all grading operations at right angles to the slope. Final grading and shaping is not usually
- necessary for temporary seeding. iii. Schedule required soil tests to determine soil amendment composition and application rates for sites having disturbed area over 5 acres. B. Soil Amendments (Fertilizer and Lime Specifications)
- Soil tests must be performed to determine the exact ratios and application rates for both lime and fertilizer on sites having disturbed areas over 5 acres. Soil analysis may be performed by the University of Maryland or a recognized commercial laboratory. Soil samples taken for engineering
- purposes may also be used for chemical analyses. ii. Fertilizers shall be uniform in composition, free flowing and suitable for accurate application by approved equipment. Manure may be substituted for fertilizer with prior approval from the appropriate approval authority. Fertilizers shall all be delivered to the site fully labeled according
- to the applicable state fertilizer laws and shall bear the name, trade name or trademark and warrantee of the producer. iii. Lime materials shall be ground limestone (hydrated or burnt lime may be substituted) which contains at least 50% total oxides (calcium oxide plus magnesium oxide). Limestone shall be ground to such
- fineness that at least 50% will pass through a •100 mesh sieve and 90-100% will pass through a •20 mesh sieve.
 iv. Incorporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
- C. Seedbed Preparation Temporary Seeding
 - a. Seedbed preparation shall consist of loosening soil to a depth of 3" to 5" by means of suitable agricultural or construction equipment, such as disc harrows or chisel plows or rippers mounted on construction equipment. After the soil is loosened it should not be rolled or dragged smooth, but left in the roughened condition. Sloped areas (greater than 3:1) should be tracked leaving the surface in an irregular condition with ridges running parallel to the contour of the slope.
- Apply fertilizer and lime as prescribed on the plans. In corporate lime and fertilizer into the top 3-5" of soil by disking or other suitable means.
- Minimum soil conditions required for permanent vegetative establishment:
 1. Soil pH shall be between 6.0 and 7.0.
 - Soluble salts shall be less than 500 parts per million (ppm). The soil shall contain less than 40% clay, but enough fine grained material (>30% silt plus clay) to provide the capacity to hold a moderate amount of moisture. An exception is if lovegrass or serecia lespedezas is to be planted, then a sandy soil (30% silt
 - plus clay) would be acceptable. Soil shall contain 1.5% minimum organic matter by weight.
- Soil must contain sufficient pore space to permit adequate root penetration. 6. If these conditions cannot be met by soils on site, adding topsoil is required
- in accordance with Section 21 Standard and Specification for Topsoil. Areas previously graded in conformance with the drawings shall be maintained in a true and even grade, then scarified or otherwise loosened to a depth of 3-5" to permit bonding of the topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil to the surface area and to create horizontal erosion check slots to prevent topsoil from slidina down a slope.
- Apply soil amendments as per soil test or as included on the plans. Mix soil amendments into the top 3-5" of topsoil by disking or other suitable means. Lawn areas should be raked to smooth the surface, remove large objects like stones and branches, and ready the area for seed and application. Where site conditions will not permit normal seedbed preparation, loosen surface soil by dragging with a heavy chain or other equipment en the surface. Steep slopes (steeper than 3:1) should be tracked by a dozer leav the soil in an irregular condition with ridges running parallel to the contour of the slope. Th top 1-3" of soil should be loose and friable. Seedbed loosening may not be necessary on
- D. Seed Specifications
- i. All seed must meet the requirements of the Maryland State Seed Law. All seed shall be subject to re-testing by a recognized seed laboratory. All seed used shall have been tested within the 6 months immediately preceding the date of sowing such material on this job.
- Note: Seed tags shall be made available to the inspector to verify type and rate of seed used. ii. Inoculant - The inoculant for treating legume seed in the seed mixtures shall be a pure culture of nitrogen-fixing bacteria prepared specifically for the species. Inoculants shall not be used later than the date indicated on the container. Add fresh inoculant as directed on package. Use four times the recommended rate when hydroseeding. Note: It is very important to keep inoculant as cool as possible until used. Temperatures above 75°-80° F. can weaken bacteria and make the inoculant less effective. Methods of Seeding

FISHER, COLLINS & CARTER, INC

IVIL ENGINEERING CONSULTANTS & LAND SURVEYO

SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL

newly disturbed areas.

- Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer), broadcast or drop seeded, or a cultipacker seeder. a. If fertilizer is being applied at the time of seeding, the application rates amounts will not exceed the following: nitrogen; maximum of 100 lbs. per acre total of soluble nitrogen; P205 (phosphorous); 200 lbs/ac; K20 (potassium): 200 lbs/ac.
- b. Lime use only ground agricultural limestone, (Up to 3 tons per acre may be applied by hydroseeding). Normally, not more than 2 tons are applied by hydroseeding at any one time. Do not use burnt or hydrated lime when hydroseeding. Seed and fertilizer shall be mixed on site and seeding shall be done immediately and
- ii. Dry Seeding: This includes use of conventional drop or broadcast spreaders. a. Seed spread dry shall be incorporated into the subsoil at the rates prescribed on the Temporary or Permanent Seeding Summaries or Tables 265 or 26. The seeded area
- shall then be rolled with a weighted roller to provide good seed to soil contact. Where practical, seed should be applied in two directions perpendicular to each other. Apply half the seeding rate in each direction. iii. Drill or Cultipacker Seeding: Mechanized seeders that apply and cover seed with soil.
- Cultipacking seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seedbed must be firm after planting. b. Where practical, seed should be applied in two directions perpendicular to each other.
 Apply half the seeding rate in each direction.
- Mulch Specifications (In order of preference) Straw shall consist of thoroughly threshed wheat, ree or oat straw, reasonable bright in color, and shall not be musty, moldy, caked, decayed, or excessively dusty and shall be free of noxious weed seeds as specified in the Maryland Seed Law.
- ii. Wood Cellulose Fiber Mulch (WCFM) a. WCFM shall consist of specially prepared wood cellulose processed into a uniform
 - WCFM shall be dyed green or contain a green dye in the package that will provide an appropriate color to facilitate visual inspection of the uniformly spread slurry WCFM, including dye, shall contain no germination or growth inhibiting factors. WCFM materials shall be manufactured and processed in such a manner that the
- wood cellulose fiber mulch will remain in uniform suspension in water under agitation and will blend with seed, fertilizer and other additives to form a homogeneous slurry. The mulch material shall form a blotter-like ground cover, on application, having moisture absorption and percolation properties and shall cover and hold grass seed
- in contact with the soil without inhibiting the growth of the grass seedlings.

 WCFM material shall contain no elements or compounds at concentration levels that will be phytol-toxic.
- f. WCFM must conform to the following physical requirements: fiber length to approximately 10 mm; , diameter approximately 1 mm., pH range of 4.0 to 8.5, ash content of 1.6% maximum and water holding capacity of 90% minimum.

 Note: Only sterile straw mulch should be used in areas where one species of grass is desired.

NO.

- G. Mulching Seeded Areas Mulch shall be applied to all seeded areas immediately after seeding.

 i. If grading is completed outside of the seeding season, mulch along shall be applied as prescribed in this section and maintained until the seeding season returns and seeding can be performed in
- accordance with these specifications. ii. When straw mulch is used, it shall be spread over all seeded areas at the rate of 2 tons/acre. Mulch shall be applied to a uniform loose depth of between 1" and 2". Mulch applied shall achieve a uniform distribution and depth so that the soil surface is not exposed. If a mulch anchoring tool is to be used, the rate should be increased to 2.5 tons/acre.
- iii. Wood cellulose fiber used as a mulch shall be applied at a net dry weight of 1,500 lbs. per acre. The wood cellulose fiber shall be mixed with water, and the mixture shall contain a maximum of 50 lbs of wood cellulose fiber per 100 gallons of water.
- H. Securing Straw Mulch (Mulch Anchoring): Mulch anchoring shall be performed immediately following mulch application to minimize loss by wind or water. This may be done by one of the following methods (listed by preference), depending upon size of area and erosion hazard:
- i. A mulch anchoring tool is a tractor drawn implement designed to punch and anchor mulch into the soil surface a minimum of two (2) inches. This practice is most effective on large areas, but is limited to flatter slopes where equipment can operate safely. It used on sloping land, this practice should be used on the contour if possible.
 ii. Wood cellulose fiber may be used for anchoring straw. The fiber binder shall be applied at a net dry weight of 750 pounds/acre. The wood cellulose fiber shall be mixed with water and
- he mixture shall contain a maximum of 50 pounds of wood cellulose fiber per 100 gallons iii. Application of liquid binders should be heavier at the edges where wind catches mulch, such as in valleys and crest of banks. The remainder of area should be appear uniform after binder application. Synthetic binders - such as Acrylic DLR (Agro-Tack), DCA-70 Petroset, Terra Tax
- . Terra Tack AR or other approved equal may be used at rates recommended by the manufacturer to anchor mulch. iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer's recom-
- mendations. Netting is usually available in rolls 4' to 15' feet wide and 300 to 3,000 feet Iona. I. Incremental Stabilization - Cut Slopes All cuts slopes shall be dressed, prepared, seeded and mulched as the work progresses. Slopes
- shall be excavated and stabilized in equal increments not to exceed 15' ii. Construction sequence (Refer to Figure 3 below):
- a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to convey runoff from the excavation.
 b. Perform Phase 1 excavation, dress, and stabilize.
- Perform Phase 2 excavation, dress and stabilize. Overseed Phase 1 areas as
- necessary. Perform final phase excavation, dress and stabilize. Overseed previously seeded
- Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions int he operation of completing the operation out of the seeding season will necessitate the application of temporary stabilization. J. Incremental Stabilization of Embankments - Fill Slopes
- Embankments shall be constructed in lifts as prescribed on the plans.
- ii. Slopes shall be stabilized immediately when the vertical height of the multiple lifts reaches

 15°, or when the grading operation ceases as prescribed in the plans.

 iii. At the end of each day, temporary berms and pipe slope drains should be constructed along the top edge

 of the embankment to intercept surface runoff and convey it down the slope in a non-crosive manner to
- a sediment trapping device.

 Construction sequence: Refer to Figure 4 (below).

 a. Excavate and stabilize all temporary swales, side ditches, or berms that will be used to divert runoff around the fill. Construct slope silt fence on low side of fill as shown in Figure 5, unless other methods shown on the plans address this area.
- embankment, dress and stabilize Place Phase 2 embankment, dress and stabilize.

OBTAIN GRADING PERMIT

CONSTRUCT BUILDINGS

** GEOTEXTILE CLASS 'C'

OR BETTER

. INSTALL TEMPORARY SEEDING

CLEAR AND GRUB TO LIMITS OF DISTURBANCE

Place final phase embankment, dress and stabilize. Overseed previously seeded

SEQUENCE OF CONSTRUCTION

INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN

FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE

AND PERMISSION IS GRANTED BY E/S CONTROL INSPECTOR.

REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED

STRUCTURE

* 50' MINIMUM

LENGTH

PROFILE

PLAN VIEW

1. Length - minimum of 50' (*30' for single residence lot).

Construction Specification

3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior

residences to use geotextile.

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete

to placing stone. **The plan approval authority may not require single family

5. Surface Water - all surface water flowing to or diverted toward construction

2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.

equivalent shall be placed at least 6" deep over the length and width of the entrance.

mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has

to be sized according to the drainage. When the SCE is located at a high spot and

according to the amount of runoff to be conveyed. A 6" minimum will be required.

where construction traffic enters or leaves a construction site. Vehicles leaving

the site must travel over the entire length of the stabilized construction entrance

STABILIZED CONSTRUCTION ENTRANCE

entrances shall be piped through the entrance, maintaining positive drainage. Pipe

installed through the stabilized construction entrance shall be protected with a

has no drainage to convey a pipe will not be necessary. Pipe should be sized

Location - A stabilized construction entrance shall be located at every point

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of and placement of topsoil (if required) grading and permanent seed and mulch. any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

7 DAYS

4 DAYS

2 DAYS

14 DAYS

BERM (6" MIN.)

—EARTH FILL

EXISTING PAVEMENT-

STANDARD SYMBOL

SCE.

PAVEMENT

Signature of Developer

-PIPE AS NECESSARY

MOLINTARIE

4

MINIMUM 6" OF 2"-3" AGGREGATE OVER LENGTH AND WIDTH OF

SEDIMENT CONTROL NOTES

- 1) A MINIMUM OF 40 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LISCENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855). 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN
- CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO. 3) FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES.
- DIKES. PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1. b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE. 4) ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1.
- CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL STORM DRAINAGE 5) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER
- GERMINATION AND ESTABLISHMENT OF GRASSES. 6) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT
- CONTROL INSPECTOR. 7) SITE ANALYSIS: TOTAL AREA OF SITE 1.063 ACRES 0.7936 ACRES AREA DISTURBED AREA TO BE ROOFED OR PAVED 0.2531 ACRES AREA TO BE VEGETATIVELY STABILIZED 0.5405 ACRES TOTAL FILL 790 CU.YDS
- OFFSITE WASTE/BORROW AREA LOCATION B) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR. 10) ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES. APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

9) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED

11) TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGHTS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

1181181

36" MINIMUM

-- 8" MINIMUM

STANDARD SYMBOL

PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously Soil Amendments: In lieu of soil test recommendations, use one of

- the following schedules: 1) Preferred - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into
- per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.). 2) Acceptable - Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

upper three inches of soil. At time of seeding, apply 400 lbs.

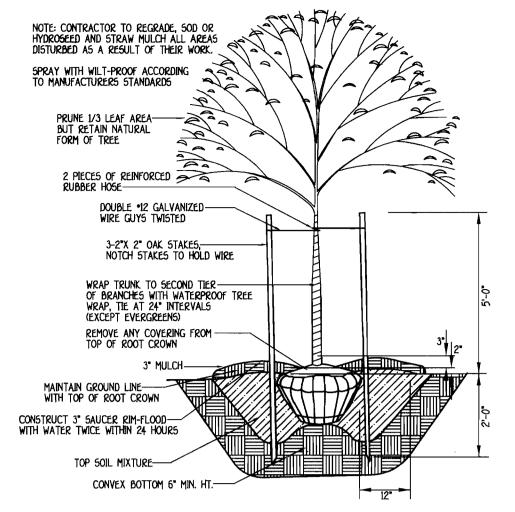
- Seeding : For the period March 1 thru April 30 and from August 1 thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sa.ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by one of the following
- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw. Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal.
- Maintenance: Inspect all seeded areas and make needed repairs. replacements and reseedings.

per 1000 sq.ft.) for anchoring.

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed. Seedbed Preparation: Loosen upper three inches of soil by raking. discing or other acceptable means before seeding, if not previously

- <u> Soil Amendments : Apply 600 lbs. per acre 10-10-10 fertilizer (14</u> lbs. per 1000 sq.ft.).
- Seeding: For periods March 1 thru April 30 and from August 15 thru November 15, seed with 2-1/2 bushels per acre of annual rye (3.2 lbs. per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.
- Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.
- Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.



TREE PLANTING DETAIL

SCHEDULE A PERIMETER LANDSCAPE EDGE							
PERIMETER CATEGORY	P-1 ADJACENT TO PERIMETER PROPERTIES	P-2 ADJACENT TO PERIMETER PROPERTIES	P-3 ADJACENT TO PERIMETER PROPERTIES	P-4 ADJACENT TO ROADWAY (REAR)	P-5 ADJACENT TO PERIMETER PROPERTIES	P-6 ADJACENT TO ROADWAY (FRONT)	TOTAL
LANDSCAPE TYPE	Α	A	Α	Α	Α	A	
LINEAR FEET OF PERIMETER	153.67 L.F.	76.00 L.F.	115.00 L.F.	171.67 L.F.	272.30 L.F.	149.56 L.F.	901.18 L.F.
CREDIT FOR EXISTING VEGETATION (NO, YES AND %)	N/A	N/A	YE5 (46%) 98 L.F.	REAR N/A (FRONTS) (PUBLIC) (ROAD)	N/A	N/A (FRONTS) (PUBLIC ROAD	YES (100%)
CREDIT FOR EXISTING VEGETATION SHADE TREES EVERGREENS	N/A	N/A	2 SHADE TREES	REAR N/A (FRONTS) (PUBLIC) ROAD	N/A	N/A (FRONTS\ (PUBLIC ROAD	2 SHADE TREES
NUMBER OF TREES REQUIRED SHADE TREES EVERGREENS SHRUBS	N/A	N/A	2 SHADE TREES	REAR N/A /FRONTS\ (PUBLIC (ROAD)	N/A	N/A (FRONTS) (PUBLIC) ROAD	2 SHADE TREES
NUMBER OF TREES TO BE PROVIDED SHADE TREES EVERGREENS OTHER TREES (2:1 SUBSTITUTION) SHRUBS (10:1 SUBSTITUTION)	0	0	2 SHADE TREES	REAR N/A	0	N/A (FRONTS) (PUBLIC ROAD	2

PERIMETER LANDSCAPING IN ACCORDANCE WITH SECTION 16.124 OF THE LANDSCAPE MANUAL SHALL BE PROVIDED AS SHOWN ON THIS SITE PLAN. SURETY IN THE AMOUNT OF \$600.00 FOR TWO SHADE TREES ON LOT 6 SHALL BE PROVIDED WITH THE GRADING PERMIT FOR LOT 6. CREDIT IS GIVEN FOR EXISTING VEGETATION ON LOTS

4 & 5 PERIMETER LANDSCAPING FOR LOT 3 WAS PROVIDED UNDER 5DP 01-120. SURETY FOR LANDSCAPING SHALL

BE POSTED WITH THE DEVELOPER'S AGREEMENT FOR THIS PLAN.

LANDSCAPE SCHEDULE							
QUANTITY	5YMBOL	BOTANICAL NAME	COMMON NAME	SIZE			
2	(S)	ACER RUBRUM' OCTOBER GLORY	OCTOBER GLORY MAPLE	2 1/2"-3"			

BUILDER/DEVELOPER'S/ CERTIFICATE

I/WE CERTIFY THAT THE LANDSCAPING SHOWN IN THIS SITE WILL BE DONE ACCORDING TO THE PLAN. SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A CERTIFICATION OF LANDSCAPE INSTALLATION ACCOMPANIED BY AN EXECUTED ONE YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING. 3-2-6

ROBERT DORSEY, JR.

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISION OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL. FINANCIAL SURETY FOR THE REQUIRED LANDSCAPING WILL BE POSTED AS PART OF THE BUILDER'S GRADING PERMIT APPLICATION FOR 2 SHADE TREES IN THE AMOUNT OF \$600.00.

				—2'* ORAN 3'* O.C. ——FENCE	GE STREAMERS WIRE — 6' STEEL "T-BAR" STAKI AT ROOT ZONE OF TREI
3. 5.				5	DRIVEN INTO GROUND O YELLOW PINE POST IN GROUND 2' SILT FENCE (SEE NOTES)
1. Silt Fence to 2. Wire, snow 3. Boundaries conservatio	fence, etc. f	or tree pro Area will b	tection only.	as part of	the forest

- 4. Boundaries of Retention Area should be staked and flagged prior to installina device. 5. Avoid root damage when placing anchor posts.
- 6. Device should be properly maintained throughout construction. 7. Protection signs are also required, see Figure C-4. 8. Locate fence outside the Crictical Root Zone.
- SILT FENCE & TREE PROTECTION

				^
				OF MALE
C. OR5				
OR5		 		36 4 1
PIKE				
			 	Jon 19
				721/10 9753 ST
				SIONAL ENGLIS
	1			MALYN

REVISION

ENGINEER'S CERTIFICATE

NOTE: FENCE POST SPACING

778778

SHALL NOT EXCEED 10'

CENTER TO CENTER

TRIBUNIO

21/2" DIAMETER

OR ALUMINUM

CHAIN LINK FENCING-

EMBED FILTER CLOTH 8"

by 6" and folded.

Geotextile Class F:

0 - 10%

10 - 20%

20 - 33%

Tensile Strength

Filtering Efficiency

Steepness

0 - 10:1

10:1 - 5:1

5:1 - 3:1

3:1 - 2:1

2:1 +

5-2-06

Tensile Modulus

Flow Rate

MINIMUM INTO GROUND

*IF MULTIPLE LAYERS ARE

REQUIRED TO ATTAIN 42"

GALVANIZED

POSTS

required except on the ends of the fence.

every 24" at the top and mid section.

∠ CHAIN LINK FENCE.

FILTER CLOTH

Construction Specifications

for a 6' fence shall be used, substituting 42" fabric and 6' length posts.

2. Chain link fence shall be fastened securely to the fence posts with wire ties.

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

5. When two sections of filter cloth adjoin each other, they shall be overlapped

7. Filter cloth shall be fastened securely to each fence post with wire ties or

develop in the silt fence, or when silt reaches 50% of fence height

75% (min.)

6. Maintenance shall be performed as needed and silt buildups removed when "bulges"

staples at top and mid section and shall meet the following requirements for

50 lbs/in (min.)

20 lbs/in (min.)

Design Criteria

SUPER SILT FENCE NOT TO SCALE

(maximum)

200 feet

100 feet

50 feet

4. Filter cloth shall be embedded a minimum of 8" into the ground.

latest Maryland State Highway Details for Chain Link Fencing. The specification

The lower tension wire, brace and truss rods, drive anchors and post caps are not

1. Fencing shall be 42" in height and constructed in accordance with the

WITH 1 LAYER OF

-- 16" MIN. 15T LAYER OF

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

Silt Fence Length

(maximum)

1,500 feet

1.000 feet

250 feet

0.3 gal/ft /minute (max.)2 Test: M5MT 322

FILTER CLOTH*

"I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District." 3.1.06

DEVELOPER'S CERTIFICATE "I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation district

3-2-66

ROBERY DORSEY, JR.

EARL D. COLLINS

SCD and meets Technical Requirements X.-Natural Resources ndervation Service

> OWNER/BUILDER/DEVELOPER DORSEY FAMILY HOMES 10717-B BIRMINGHAM WAY

WOODSTOCK, MARYLAND 21163

410-465-7200

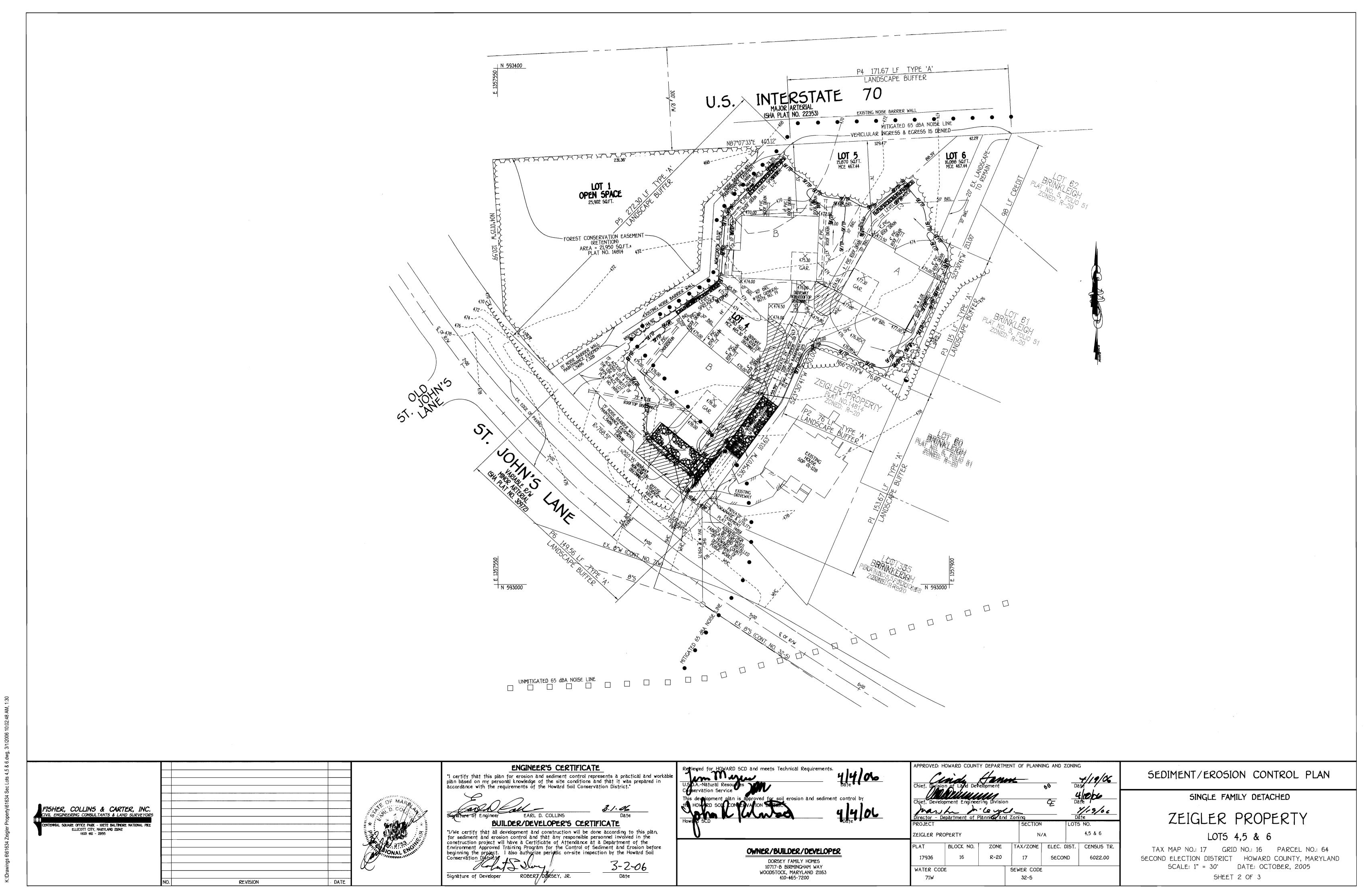
(PPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING rector - Department of Planage and Zonina PROJECT 4.5 & 6 ZEIGLER PROPERTY TAX/ZONE | ELEC. DIST. BLOCK NO. ZONE CENSUS TR. R-20 17936 SECOND 6022.00 WATER CODE SEWER CODE 71W 32-5

SEDIMENT/EROSION CONTROL, LANDSCAPE NOTES & DETAILS SINGLE FAMILY DETACHED ZEIGLER PROPERTY

LOTS 4,5 & 6 TAX MAP NO.: 17 GRID NO.: 16 PARCEL NO.: 64

SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: OCTOBER, 2005 SCALE: AS SHOWN SHEET 3 OF 3

9DP-06-60



9DP-06-60